1. 18741-66 EMT(m)/EMP(t) IJP(o) JD/WB ACC NR: //P6005133 SHURCE CODE: UR/0126/66/021/001/0028/0032 AFTHOR: Sums, B. D.; Ivanova, L. V.; Gorjunov, Yu. V.; Dekartov, A. P. ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosumiversitet) TITLE: Effect of mercury soluble metals on the diffusion rate of mercury over the surface of polycrystalline zinc SOURCE: Fizika metallov i metallovadeniye, v. 21, no. 1, 1966, 28-32 TOPIC TAGS: metal diffusion, mercury, zinc, activation energy ABSTRACT: The processes of the propagation of various metals over the surface of solids play an important role in semiconductor engineering, radioelectronics, powder metallurgy and many other fields of industry and science. Hence the study of methods of altering at will the rate of surface diffusion of metals is of major interest. In this connection the authors applied a new method of influencing surface diffusion, namely, the dissolution of a second component in the diffusion metal. The Hg-Zn pair was used for this purpose, because many metals dissolve in mercury at room temperature; moreover, at room temperature, Hg migrates fairly rapidly over the surface of Zn. The effect of the following metals soluble in mercury was investigated: Cd, Ga, In, Tl, Sn, Pb, and Bi (at room temperature they do not form chemical compounds with Hg or Zn). Droplets of Mg or Hg solution (mass 5 mg) were deposited in the center area of plates Card 1/2

APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000309920018-9"

UDC: 539.219.3

L 18741-66

ACC NR: AP6005133

of pure (99.9%) polycrystalline Zn measuring 5x100 mm, with a thickness of 1 mm, and their dimensions and appearance were investigated. It was found that within as little as 1 min the droplet would spread and cover the entire width of the plate. Experiments performed with the Hg solutions of the matals named above, on varying the concentration of each component from zero to its limiting solubility, showed that all the metals with a low solubility limit (Ga) Pb; Sn; Bi) accelerate the diffusion of Hg over the surface of In. A similar effect is produced by metals with a high solubility (Cd. In, Tl) if their concentration is low. Subsequent investigations of the mechanism of this effect by means of the β-active isotope In114 showed that the diffusion of the Hg-dissolved metal occurs simultaneously with the surface migration of Hg. The acceleration of diffusion in the presence of small (0.1-3.0 at.Z) concentration of Hg--soluble metals is apparently due to the decrease in the activation energy of elementary acts of surface diffusion. It was also found, by contrast, that increasing the concentration of Hg-soluble metals above 3-4 at. 7 retards the rate of surface diffusion the mechanism of this effect is as yet unclarified but it may be assumed that the presence of too many atoms of Hg-soluble metal may impede the diffusion migration of the adjacent Hg atoms. Thus, the dissolution of selected concentrations of certain selected metals in Hg affords an extremely effective method of regulating the rate of the surface diffusion of Hg over Zn. The authors wish to express their profound gratitude to N. V. Pertsow and Ye. D. Shchukin for their valuable counsel given during discussion of the findings of this study." Orig. art. has: 1 table, 3 figures.

SUB CODE: 11, 13, 20/ SUBM DATE: 03Feb:5/ ORIG REF: 009/ ONH REF:

Card 2/25/10

DELARTOPA, N. V.

126-3-20/34

AUTHORS: Rozhanskiy, V. N., Dekartova, N. V. and Bakeyeva, I. A.

TITLE: Relations governing the manufacture of zinc monocrystals by the method of zonal crystallisation. (Zakonomernosti vyrashchivaniya monokristallov tsinka metodom zonnoy kristallizatsii).

PERIODICAL: "Fizika Metallov i Metallovedeniye" (Physics of Metals and Metallurgy), 1957, Vol.4, No.3, pp. 527-530 (U.S.S.R.)

ABSTRACT: The method of growing long metallic monocrystals from polycrystalline wires, proposed by Likhtman et alii (1 and 2), has the disadvantage that the produced monocrystals may have any orientation and if a definite orientation is desired the main advantages of the method (simplicity and convenience) The authors of this paper studied a number of relations associated with growing of monocrystals by means of the mentioned equipment; they produced monocrystals of lengths up to 30 cm from wire containing 99.99% zinc and also from zinc-cadmium alloys; the orientation and the quality of the monocrystals were determined by means of X-rays. It was established that the orientation of the monocrystals depends on the speed of movement of the furnace, due to the ratio between the speed of growth of the crystal Card 1/3 faces and the speed of novement of the furnace. At low

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Relations governing the manufacture of zinc monocrystals by the method of zonal crystallisation. (Cont.)

speeds of movement of the furnece monocrystals of arbitrary orientations were obtained and this is attributed to the fact that the speeds of growth of all the faces of the crystal are larger than the speed of movement of the furnace. In growing monocrystals by the method of zonal crystallisation it is necessary to take into account the opposing effects of the grain growtn and of selective recrystallisation. At relatively high speeds of displacement of the furnace along the polycrystalline wire the process of grain growth is of decisive influence, since the selective crystallisation cannot be completed in this case owing to various kinetic reasons. At low speeds of movement of the furnace the process of selective recrystallisation is the more important one. The role of admixtures absorbed on the growing faces of the monocrystal consists of reducing their speed of growth; during the growth of the monocrystals a displacement of the admixtures takes place in the direction of the movement of the boundary melt-metal and thereby occurrence of a non-uniform distribution of the admixtures along the wire axis is possible which is unfavourable from the point of view of mechanical tests.

Card 2/3

126-3-20/34

There are 3 figures, and 4 references, 3 of which are Slavic.

SUBMITTED: July 12, 1956.

ASSOCIATION: Moscow State University imeni M. V. Lomonosov.

(Moskovskiy Gosudarstvennyy Universitet imeni M.V.Lomonosova)

Institute of Physical Chemistry, Ac.Sc. U.S.S.R.

(Institut Fizicheskoy Khimii AN SSSR).

Card 3/3

USSR/Electricity - Conductors

G-4

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 1407

Author

: Rozhanskiy, V.N., Goryunov, Yu.V., Dekartova, N.V.

Inst

: Moscow State University.

Title

: Certain Features of the Influence of a Surface-Active Medium on the Deformation, and the Associated Change in the Electric Resistivity of Metallic Single Crystals.

Orig Pub

: Zh. fiz. khimii, 1957, 31, No 4, 882-886

Abstract

: A study was made of the dependence of the value of the adsorption effect on the orientation of the slippage plane with respect to the axis of a zinc single crystal. To separate the influence of the orientation of the single crystal on the yield point from the indirect dependence of the magnitude of effect on the orientation, the loading mode was varied. In order to clarify the

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USSR/Electricity --- Conductors

G-4

Abs Jour : Ref Zhur - Fizika, No 1, 1958, 1407

influence of various media on the development of the degree of the defectiveness of the crystal for equal deformation, a study was made of the change in the electric resistance of single crystals of pure zine and tin deformed in air and in a 0.2% solution of oleinic acid in vaseline oil (I). It is shown that the fraction of the jump-like deformation upon tension of sangle crystals of zine increases with increasing angle of inclination of the slippage plane to the axis of the specimen (\angle_0), particularly sharply as A_0 approaches 45°. The surface active medium (I) increases the fraction of the jump-like deformation by approximately two times. The value of the adsorption effect in the illumination of the influence of the variation of the yield point increases very weakly with increasing \angle_0 . It is established that the increase in the electric resistance of single crystals of zind and tin,

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USSR/Electricity . Conductors

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Abs Jour : Ref Zhur - Fizika, No 1, 1958, 1407

when these are stretched in different media, is determined uniquely (independently of the medium) by the degree of deformation.

Card 3/3

SOV/120-58-6-24/32

AUTHORS: Dekartova, N. V., Rozhanskiy, V. N. and Shchukin, Ye. D.

TITIE: Recording of the Damping of the Oscillations of a Torsional Pendulum of a Loop Oscillograph in the Measurement of Internal Friction (Zapis' zatukhaniya kolebaniy krutil'nogo mayatnika na shleyfovom ostsillografe pri izmerenii vnutrenn-

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 6, pp 107-109

ABSTRACT: The internal friction of metals is often measured by the damping of oscillations of a torsional pendulum (Refs.] to 4). The amplitude of these oscillations is usually measured with a lamp and scale arrangement. To record torsional oscillations, the present authors have used a special attachment which will record the oscillations within the range 0.1 - 10 c/s with an accuracy of about 3". The pendulum is illustrated in Fig.1, in which 1 is a quartz tube, 2 is a furnace, 3 is the specimen, 4 is a vacuum chamber for the pendulum, 5 is a mirror, 6 is a damper of transverse

Card 1/2

SOV/120-58-6-24/32

Recording of the Damping of the Oscillations of a Torsional Pendulum of a Loop Oscillograph in the Measurement of Internal Friction

vibrations, 7 are loads, 8 is an aluminium rod, 9 is a window and 10 is a connection to the pump. When the mirror is at rest, the spot of light reflected off it is roughly in the middle of a photo-element which faces it. As the pendulum is set in motion, the spot will move across the photo-element and an alternating signal will appear across the load of the photo-element. This is then amplified and then recorded on a loop oscillograph. The circuit is shown in Figs.2 and 3 and an actual record of a typical oscillation is shown in Fig.4. There are 4 figures, no tables and 7 references, of which 3 are English and the rest Soviet.

ASSOCIATION: Khimicheskiy fakul'tet MGU (Chemistry Department of Moscow State University)

SUBMITTED: December 24, 1957.

Card 2/2

AUTHORS:

Bozhanskiy, V. N., Dekartova, N. V.

SOV/20-121-2-22/53

TITLE:

Some Regularities in the Damping of Torsion Oscillations of Metal Wires (O zakonomernostyakh zatukhaniya krutil'nykh kolebaniy metallicheskikh provolok)

PERIODICAL:

Doklady Akademii nauk SSSE, 1958, Vol. 121, Nr 2,

ABSTRACT:

For a damped torsion oscillation in the limiting case at $\phi_{\alpha} \rightarrow$ 0 the linear equation ψ_{+} $A\dot{\phi}$ + $B\phi$ = 0 is valid. The logarithmic decrement & and the period T are constant. For the degree of the energy dissipation (for weak damping) there holds $\Delta U/T = C \varphi_a^2$. With finite amplitudes δ in practice is naturally not constant, but decreases with time t. The authors carried out investigations with mono- and polycrystalline zinc wires and polycrystalline copper wires. (2r = 0.5 to 1 mm, ℓ = 20 to 300 mm, frequency 0.5 to 8 cycles). For monocrystalline $2\pi \psi_0/\ell \langle 2.10^{-5} \text{ cm}^{-1} \text{ holds, for polycrystalline } 2n$

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 $\psi_0/\ell < 1,5.10^{-4} \text{cm}^{-1}$ and for polycrystalline Cu $\psi_0/\ell < 2.10^{-4} \text{cm}^{-1}$.

Some Regularities in the Damping of Torsion Oscillations of Metal Wires

SOV/20-121-2-22/53

For the dependence of the amplitude on time there is valid $-d\psi/dt = a\psi_a + b\psi_a^2$; the integration of this equation gives $\psi_a(t) = \psi_o(1-k)/(e^{at}-k)$, (where a and k are constants); $\psi(t) = [\psi_o(1-k)/(e^{at}-k)] \cos \omega t$, so in the differential equation $\psi + \psi_o(t) + \psi_o(t) = 0$ $\psi(t) = 2a/(1-ke^{-at})$ and $\chi(t) = \omega^2 + a^2/(1-ke^{-at})$ are determined. The values obtained for $\psi/\ell(in \text{ poise})$ and $\chi(in \text{ poise})$ are given in a table for a) constant $\chi(t) = u^2 + u^2/(1-ke^{-at})$ and $\chi(t) = u^2 + u^2/(1-ke^{-at})$ are determined. The values obtained for $\psi/\ell(in \text{ poise})$ and $\chi(t) = u^2 + u^2/(1-ke^{-at})$ and $\chi(t) = u^2 + u^2/(1-ke^{-at})$ are determined. The values obtained for $\psi/\ell(in \text{ poise})$ and $\chi(t) = u^2 + u^2/(1-ke^{-at})$ and $\chi(t) = u^2/(1-ke^{-at$

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet im.M.V.Lomonosova (Moscow State University imeni M.V.Lomonosov)

Card 2/3

Some Regularities in the Damping of Torsion Oscillations of Metal Wires

907/20-121-2-22/53

PRESENTED:

December 28, 1957, by P.A. Rebinder, Member, Academy of Sciences,

USSE

SUBMITTED:

December 23, 1957

Card 3/3

5(4) AUTHORS:

Dekartova, N. V., Rozhanskiy, V. N.

SOV/20-126-3-40/69

TITLE:

In Investigation of the Influence of Surface-active Media Upon Processes of Deformation and Destruction by the Method of Internal Priction (Issledovaniye vliyaniya poverkhnostno-aktivnoy sredy na protsessy deformatsii i razrusheniya metodom wnutrennego treniya)

PERIODICAL:

Doklady Akademii nauk SSSH, 1959, Vol 126, Nr 3, pp 602-604 (USSR)

ABSTRACT:

In the introduction to this paper it is stated that by measuring the damping of free torsional oscillation, a deep insight into the machanism of the displacement of atoms in solids has been obtained, but that this method has not been employed for the purpose of investigating the influence exercised by media upon mechanical properties. Two papers, by V. I. Likhtman and V. S. Ostrovskiy (Refs 1, 2) are mentioned, in which plastic viscosity in the case of steady creeping in dependence on the medium was for the first time investigated, and in which it was found that surface-active media exercise considerable influence. In this connection the effect of the easing of deformation, which was discovered by P. A. Rebinder, is mentioned, and the investigation of the influence exercised by the absorption-active media upon the atomic relaxation processes by examining the damping of the free

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An Investigation of the Influence of Surface-active Media SOV/20-126-3-40/69 Upon Processes of Deformation and Destruction by the Method of Internal Friction

torsional oscillations (frequency 7 cycles) is given as the subject to be dealt with by this paper. Investigations were carried out on mono- and polycrystalline wires of zinc, cadmium, sopper, and lead with a diameter of 0.8 mm. A 0.2% solution of oleic acid in vaselin oil was used as surface-active medium. The results obtained by investigations of monotonic twisting carried out on samples coated with the claic acid solution show a decrease of plastic viscosity. The similar effect produced by mercury compounds is explained by the diffusion of Hg-atoms into the sample, and the results obtained by investigations carried cut in this direction are shown by a diagram (Fig 2). In the following it is shown that the damping of the free oscillation of zinc-monocrystals increases only little when the solution is used, and that the method of monotonic twisting is somewhat more sensitive. In polycrystals, however, a powerful effect is found to be produced within the temperature range of 20 - 250° C. The amalgamated monocrystals of zinc show a decrease of internal friction. The decrease of internal friction by the application of a mercury film depends on the thickness of the film and on the amplitude of torsional oscillation; measuring results are shown by

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An Investigation of the Influence of Surface-active Media SOV/20-126-3-40/69 Upon Processes of Deformation and Destruction by the Method of Internal Friction

a diagram (Fig 3). Finally, the influence exercised by grain size upon inelastic deformation is investigated, and it is shown that the latter is localized upon the grain boundaries after amalgam treatment. The authors thank Academician F. A. Rebinder, Professor V. I. Likhtman, and Ye. D. Shchukin for investigating the results obtained and for their valuable advice. There are 4 figures and 7 references, 6 of which are Soviet.

ASSOCIATION:

Moskovskiy, gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

February 23, 1959 by P. A. Rebinder, Academician

SUBMITTED:

February 10, 1959

Card 3/3

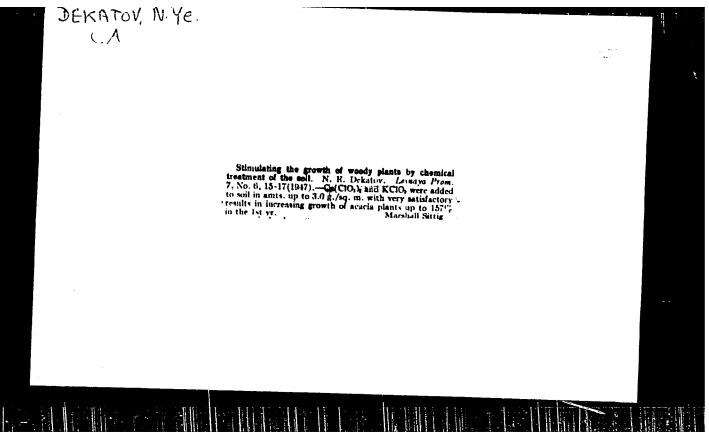
DEKARTOVA, N. V., Cand Chem Sci -- (diss) "Effect of surface-active media and admixtures on the internal friction of metals." Moscow, 1960. 14 pp with graphs; (Moscow State Univ im M. V. Lomonosov, Inst of Physical Chemistry, Academy of Sciences USSR); 150 copies; price not given; (KL, 22-60, 132)

DEKARTOVA, N.V.; ROZHANSKIY, V.N.

Investigating by internal friction the relative surface activity of certain metals as compared to zinc. Fiz. met. i metalloved.

11 no. 1:138-142 Ja '61. (MERA 14:2)

(Surface energy) (Internal friction)



PA 61T102

DEKATOV, N. YE.

Unit /Soil Soience Agriculture

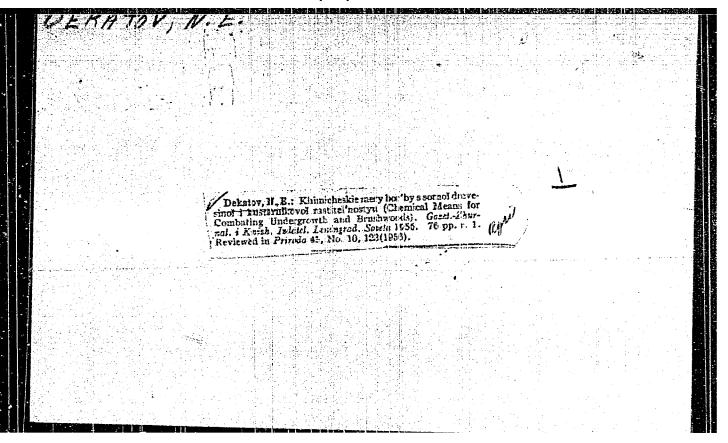
Jan 1948

"Effect of Chlorates on the Soil and the Stimulation of Growth of a Culture," N. Ye. Dekatow, Candidate Agr Soi, 42 pp

"Sovetskaya Agronomiya" No 1

Presents data and discussion showing that study of experimental work, done by various investigators on use of chlorates as herbicide in agriculture, shows that with appropriate use of the chemical, harvest of agricultural products can be greatly increased.

61T102



USSR/Forestry - Forest Cultivation.

к.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15375

Author

: N.Ye. Dekatov

Inst

: Central Scientific Research Institute for Forestry.

Title

: Scientific Experimentation in the Field of Forest Renewal of Areas of Concentrated Felling in the Taiga

Zone of the European Part of the USSR.

(Rezul'taty nauchno-issledovatel'skoy paboty v oblasti lesovozobnovleniya na kontsentrirovannykh byrubkakh v

tayezhnoy zone Evropeyskoy chasti SSSR).

Orig Pub

: Sb. statey po resul'tatam issled. v obl. lesn. kh-va i lesn. prom-sti v tayezhn. zone SSSR. M.-L., AN SSSR,

1957, 57-65

Abstract

: A brief survey of the work of scientific research institutions is given with the especial attention paid

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CIA-RDP86-00513R000309920018-9

USSR/Forestry - Forest Cultivation.

K.

Abs Jour

: Ref Zhur - Biol., No 4, 1958, 15375

to forest renewal on areas of concentrated felling. One examines critically mechanized forest preparation, cultivation and forestry measures taken in the forest zone. Great significance is attributed to the abandonment of seedage, the maintenance of undergrowth with concentrated cutting, the trimming of forest clearings, measures of cooperation with natural forest renewal, aerial sowing, mechanized forest cultivation and farming work. It has been noted that the Central Scientific Research Institute for Forestry has set into production the simplest method of cultural introduction, chemical weed control, a chemical method fo drying up defective aspen trees and has constructed a series of implements for working the soil.

Card 2/2

DEKATOV, Nikolay Yevgen yevich, prof.; BOBYLEV, G.V., red.; EFUSH, L.A., red. izd-va; BACHURINA, A.M., tekhn. red.

[Chemical means of combating weeds in forestry] Khimicheskie sredstva bor'by a sornoi rastitel nost'iu v lesnom khoziaistve. Moskva, Goslesbumizdat, 1958. 131 p. (NIRA 11:19) (Worests and forestry) (Weed control)

DEKATOV, Nikolay Yevgen'yevich, prof.; KOVALIN, D.T., red.; AMAL'RIK, Z.G., red.izd-vs.; PARAKHINA, N.L., tekhn.red.

[Measures for forest regeneration in mechanized logging] Meropriiatiia po vozobnovleniiu lesa pri mekhanizirovannykh lesozagotovkakh. Moskva, Goslesbumizdat, 1961. 277 p.

(MIRA 14:6)

(Referestation)

GUTOVSKIY, Mikhail Vasil'yevich; ANDREYEV, V.V., kand. tekhn. nauk, dota., retsenzent; DEKATOV, V.N., kand. tekhn. nauk, dots., retsenzent; POPOV, Yu.A., prof., red.; GRIGORASH, K.I., red.izd-va; NOVIK, R.Ya., tekhn. red.

[Manual for the design of components and systems of aeronautical electric equipment] Posobie po proektircvaniiu i raschetu elementov i sistem aviatsionnogo elektrooborudovaniia. Moskva, Gos.nauchno-tekhn. izd-vo Oborongiz. No.1. [Electric circuits for airplanes] Samoletnye elektroseti. Pod red. IU.A.Popova. 1961. 136 p. (MIRA 14:11)

(Airplanes—Electric equipment)

GUTOVSKIY, M.V.; DEKATOV, V.N.

Designing the main electric networks for modern multimotor sirplanes. Nauch. dokl. vys. shkoly; energ. no.2:39-44 *58.

(Electricity in aeronautics) (MIRA 11:11)

DEKE, Denes; SZANTAY, Csaba; TCKE, Laszlo

Data on the chemistry of heterocylic, pseudobasic amino carbinols. XV. Determination of the dissociation grade of cotarnine and some analogue compounds. Magy kem folycir 66 no.2:66-70 F 160.

1. Budapesti Muszaki Egyeten Szerves-Kemiai Tanszeke. 2. "Magyar Kemai Folyoirat" szerkeszto bizottsagi tagja (for Beke).

DEKEL'MAN L., nauchnyy sotrudnik

Self-service section of household utensils. Sov. terg. 36 no.5: 27-30 My 163. (MIRA 16:5)

1. Nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya.

(Moscow--Self-service stores) (Kitchen utensils)

DENEXH A.

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Author : Karel Palat, Ales Dekers Cenek Vrba.

Inst

: Study of Local Anesthetics. X. Basic Complex Title

Esters of Diphenylcarbamic Acids.

Orig Pub: Chem listy, 1957, 51, No 3, 563-567; Sb. chekhosl. khim. rabot, 1957, 22, No 3, 825-830.

Abstract: m-Iodophenylbutyl ester, yield 64%, boiling point 131 to 1320/7 mm, and n-iodophenylbutyl ester, yield 76%, boiling point 104 to 1060/0.5 mm, were synthetized of corresponding amines. n-Bromophenetole, boiling point 91 to 930/5mm, was synthetized

Card 1/7

CZECHOSLOVAKIA / Organic Chemistry, Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: by Sandmeyer's reaction of n-phenetidine with a yield of 74%. Monooxydiphenylamines were prepared by heating the corresponding dibasic phenol with an excessive amount of aniline in a sealed tube in the presence of CaCl2. The amines, their yield in %, their boiling points in °C/mm, and their melting points in °C are presented in the following: 2-oxydiphenylamine - 52, 140 to 145/0.5, -; 3-oxydiphenylamine - 62, 169/0.9, 81 to 82; 4-oxydiphenylamine --, 165 to 170/0.9, 69 to 70; 4,4-dioxydiphenylamine - melting point 169°, synthetized at a 42%-ual yield by heating n-aminophenol in the presence of iodine. Alkoxydiphenylamines (RC6H1)NH(C6H1R!) (I) were synthetized by three methods: 1/ by heating 0.1 mole

Card 2/7

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: of the aromatic halogen derivative with 0.15 mole of alkoxyaniline in the presence of 1g of active Cu in the duration of 3 to 6 hours to from 200 to 210° at a periodical addition of fresh catalyst; 2/ by alkylating 0.1 mole of oxy- or dioxydiphenylamine with 0.11 or 0.22 mole of diethylsulfate in the presence of 20%-ual KOH; 3/ by adding the Na salt (prepared by aging Na-alcoholate with 0.1 mole of the corresponding oxydiphenylamine in alcohol solution for 12 hours) to 0.11 mole of butyl iodide and boiling it 3 hours. The R-s and R's constituting the I, the yields by the methods 1, 2, and 3,

Card 3/7

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic G Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: the boiling points in ${}^{\circ}\text{C/mm}$, and the melting points in ${}^{\circ}\text{C}$ are presented in the following: $4 - C_2 H_5 O$, H, 28, 87, -, 145/0.9, 72 (from alcohol); $4 - C_4 H_9 O$, H, 22, -, 81, 157 to 159/0.2, 46 (from petroleum ether); 3- $C_4 H_9 O$, H, 88, -, 73, 160 to 164/0.2, -; $2 - C_4 H_9 O$, H, -, -, 79, 182 to 185/1, -; $4 - C_2 H_5 O$, $4 - C_2 H_5 O$, 22, 70, -, 162 to 166/0.3, 94.5 (from petroleum ether); $4 - C_4 H_9 O$, $4 - C_4 H_9 O$, 31, -, 81, 189 to 190/0.1, -; $3 - C_4 H_9 O$, $3 - C_4 H_9 O$, 69, -, -, 218 to 225/0.9, -. 0.1 mole of alkoxy- or dialkoxydiphenylamine in 180 ml of toluene, is mixed with 200 g of 20%-ual 3 - 20 solution in toluene, the mixture is left to age 12 hours, after which it is heated to the boiling

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: point; acid chlorides of substituted diphenyl-carbamic acids RC6HLN(C6HLR')CCCl are produced; the R-3 and R'-s, 'the yield in % and the melting points in °C (from alcohol) are presented in the following: 4-C2H50, H, 87, 126 to 127; 4-CLH90, H, 86, 62; 4-C2H50, 4-C2H50, 76, 101; 4-CLH90, 4-CLH90, 76, 78. RC6HLN(C6HLR')CCCH2CH2N(C2H5)2-s (II) were prepared by boiling (1 hour) Na-diethyl-amineettylate with the corresponding acid chloride. The R-s and R'-s, the yield in %, the boiling points in °C/mm, and the melting points of the

Card 5/7

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

G

Ars Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: hydrochlorides in °C (from mixed petroleum ether and toluene) are presented in the following: 4-C₂H₅O, H, 63, 185 to 189/3; 146 to 147 (from toluene); 4-C₄H₉O, H (IIa), 64, 197 to 204/1.5, 106 to 107; 3-C₄H₉O, H (IIb), 54, 135/0.02, 116 to 119; 2-C₄H₉O, H, 59, 150/0.03, 136; 4-C₂H₅O, 4-C₂H₅O, 55 18C/0.3, 134 to 136; 4-C₄H₉O, 4-C₄H₉O, 74, -, 109 to 115; 3-C₄H₉O, 3-C₄H₉O, 57, -, 97 to 98. All the prepared complex esters and their hydrochlorides possess high anesthetic properties. The most active one is IIa, which is approximately 76 times more active than cocaine (III), when used for surface anesthesia and approx-

Card 6/7

23

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: imately 40 times more active than procaine (IV) when used for infiltration anesthosia. IIb is approximately six times less poisonous than III and considerably less poisonous than IV, besides, it is approximately 8 times more active than III, and 15 times more active than IV. See the fore-going report in RZhKhim, 1958, 10698.

Card 7/7

MORECKI, Adam, doc. dr., DEKERT, Jan, mgr inz.; KUROWSKI, Waldemar, mgr inz.

Testing kinematic accuracy of a unilaterally working couple of toothed wheels by the electrotensiometric method. Przegl mech 22 no. 19. 10:595-509 163.

1. Zaklad Teorii Konstrukcji Maszyn, Instytut Podstawowych Problemov Techniki, Polska Akademia Nauk, Warszawa.

DERHAN, S. P., TOLIFSON, I. V.

Certain Peculiarities of Storage of Medical supplies and Preparation of Prescription Formulae Under Field Condtions.

VOYERNO-BETSINSKIY ZHURRAL (MILITARY BEDICAL FOURBAL), No 3, 1955. p. 73

DEKHANOV, I.P., tekhnik

Automatic unit for the flame processing of large machine parts.

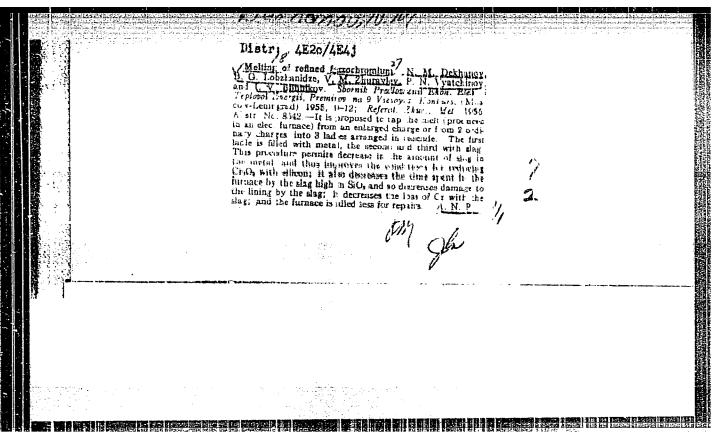
Khim. mas . no. 3:35-36 My-Je '60. (MIRA 14:5)

(Sverdlovsk—Chemical engineering—Equipment and supplies)

DEKHANOV, I.P., inzh.

Bending die with a detachable punch. Khim.mash. no.4:40 Jl-Ag '62. (MIRA 15:7)

(Punching machinery)



DEKHANOV, N.M., inzh., otv. red.; KRAVCHENKO, V.A., inzh., zames. otv. red.; RAGULINA, R.I., inzh., red.; YEM, A.P., kand. tekhn. nauk, red.; GASIK, M.I., assisten, red.; ZEL'DIN, V.S., inzh., red.; SAKHAROV, R.S., red.; BELIKOV, Yu.V., inzh., red.; KOCHERGA, N.T., ved. red.; SYCHUGOV, V.G., tekhn. red.

[Development of the iron alloy industry in the U.S.S.R.] Razvitie ferrosplavnoi promyshlennosti SSSR. Kiev, Gos. izd-vo tekhn. lit-ry, USSR, 1961. 243 p. (MIRA 15:4)

1. Ukraine. Gosudarstvennyy nauchno-tekhnicheskiy komitet.
Institut tekhnicheskoy informatsii. 2. Zaporozhskiy zavod
ferrosplavov (for Dekhanov, Kravchenko, Ragulina). 3. Dnepropetrovskiy metallurgicheskiy institut (for Gasik, Belikov).

(Iron industry)

\$/133/61/000/007/009/017 A054/A129

AUTHORS:

Dekhanov, N. M., Semenovich, B. V., Engineers

TITLE:

The diameter of self-baking electrodes for ferro-alloy smelting fur-

naces

PERIODICAL: Stal', no. 7, 1961, 616 - 617

TEXT: When calculating the electrode consumption required for smelting ferro-alloys, two contradictory circumstances have to be taken into account: When the furnace capacity remains unchanged for the t₁ = 60/P period in min (where P = rated furnace capacity, megawatt) the specific electrode-paste consumption (kg/1,000 kwh) must be raised to maintain the same burning rate of the electrode, due to the radiation of the charge and the heat conductivity of the electrode), the electrode diameter has to be increased and the current density decreased accordingly. The tendency, however, to maintain the heating of the electrode with the heat imparted by the current with the simultaneous increase in the electrode-paste (p) consumption during period t₁ results in the necessity to increase the current density and consequently to reduce the electrode diameter. When calculating the heating of the electrode due to radiation of the charge and to the heat conductive

Card 1/3

8/133/61/000/007/009/017 A054/A129

The diameter of self-baking electrodes for ...

ity of the electrode, it is found that uniform electrode heating conditions by the heat sources mentioned upon smelting alloys with various specific electrode consumption are obtainable when the current densities are in reverse ratio to the values of p:

 $\frac{\Delta I_1}{\Delta I_2} = \frac{p_2}{p_1} \tag{8}$

To maintain the analogous conditions of the burning of the electrode due to the effect of current, the quantity of energy developed in one unit volume of the electrode (for instance, 1 cm³) during its burning down, for instance, 1 cm must be kept invariable. The calculation carried out yielded a direct proportion:

 $\frac{\Delta I_1}{\Delta I_2} = \frac{p_1}{p_2} \tag{14}$

it. e., in order to maintain the conditions of electrode burning due to the heat of the current unchanged, the electric densities must be in direct propertion to the electrode consumption. This shows that the effect of heat transferred by the charge of the heat conductivity and of the heat imparted by the current balance each other and therefore cannot be used in calculating the current density in the

Card 2/3

The diameter of self-baking electrodes for ...

8/133/61/000/007/009/017 A054/A129

electrode. The practice of the Zaporozhskiy savod ferrosplavov (Zaprozh'ye Plant of Ferroalloys) gives more aid to solve these problems than theory. In this plant current densities of 5.8 and 7.1 amp/cm² are usually applied to electrode diameters of 940 and 840 mm with a specific electrode consumption of up to 9.8 kg/1,000 kwh, a current density of 5.5 - 6.0 amp/cm² can be applied to electrode diameters of 1,300 - 1,400 mm. Experience shows that in determining the electrode diameter the consumption of the electrode paste is not such a decisive factor as the shape of the electrode and the construction of the furnace. The calculations carried out by the authors of the article and the experience gained in the Zaporozh'ye Plant refute the views put forth by Ye, M. Alekseyev and published in his article in Stal', 1956, no. 10.

ASSOCIATION: Zaporozhskiy zaved ferrosplavov (Zaporozh ye Plant of Ferrealloys)

Card 3/3

DEKHANOV, N.M., inzh.; KRAVCHENKO, V.A., inzh.; VOLKOV, V.F., inzh.;

SEREMRENNIKOV, A.A., inzh.; MORGULEV, S.A., inzh.; KULESHOV, P.Ya., kand.tekhn.nauk; YELENSKIY, F.Z., inzh.

Making 75-perecent ferrosilicon with gas coke. Stal! 21 no.12:1088-1089 D '61. (MIRA 14:12)

(Ferrosilicon-Electrometallurgy)
(Gas industry-By-products)

SAPKO, A.I., kand. tekhn. nauk; DOBROV, V.P., kand. tekhn. nauk; DEM'YANETS, L.A., insh.; KENVOHIRKO, V.A., kand. tekhn. nauk; DEKHANOV, N.M., insh.

Electrohydraulic voltage regulators on arc furnaces for the manufacture of ferrocalloys. 162. i gornorud. prom. no.4:19-25 J1-Ag 162. (MIRA 15:9)

1. Dnepropetrovskiy metallurgicheskiy institut (for Sapko, Vobrov, Dom'yanets). 2. Zaporozhskiy zavod forrosplavov (for Kravchenko, Dekhanov).

(Electric furnaces) (Automatic control)

ZHERDEV, I.T.; DEKHANOV, N.M.; VOLKOV, V.F.; KUZNETSOV, L.I.; DAVATTS, V.N.; POLYAKOV, I.I.

Structure of the furnace bath in the production of 45-percent ferrosilicon. Izv. vys. ucheb. zav.; chern. met. 5 no.3:77-87 '62. (MIRA 15:5)

1. Dnepropetrovskiy metallurgicheskiy institut i Zaporozhskiy zavod ferrosplavov.

(Ferrosilicon-Electrometallurgy) (Electric furnaces)

S/133/63/000/001/005/011 A054/A126

AUTHORS: Dekhanov, N. M., Volkov, V. F., Engineers, Kravchenko, V. A., Candidate of Technical Sciences, Frish, M. I., Engineer

TITLE: Putting into operation a large-capacity covered ferro-alloy smelter

PERIODICAL: Stal', no. 1, 1963, 41 - 44

TEXT: The first covered smelters for producing manganese silicate grades (Cumh 14, Cumh 17/simn14 and Simn 17) were put into operation in the Soviet Union in 1962. First a conventional iron-smelter of 10,000 kw capacity was converted for this purpose. Its crown was made of slanting refractory concrete segments (250 mm thick, 50 tons in weight), clamped into a 600 x 300 mm annular reinforced concrete frame. The concrete used (grade 150 had a refractory capacity of 1,000 c and consisted of 330 kg/m³ liquid glass (density: 1.38), 40 kg/m³ sodium fluo-silicate, 577 kg/m³ chamotte (in the form of finely crushed additive, 50% of which passes through a screen with 4,200 mesh/cm²), 770 kg/m³ small-grained filling material (with a grain size up to 5 mm, 15 - 20% minus 0.14 mm), 600 kg/m³ large-grained filling material (20 - 5 mm fraction). The moisture content of the sodium fluo-silicate and of the small-grained additive should not exceed Card 1/3

Putting into operation a large-capacity...

S/133/63/000/001/005/011 A054/A126

1.5 weight % prior to concreting. These components must be very accurately proportioned (+ 2%). Several types of feeding chutes were tested made of CT.O(St.O) and 1X18H9T (1Kh18N9T) grade or cast of 3N-283 (EI-283) steel, finally of grade"150" concrete with a refractory capacity of 1,300°C, containing 350 kg/m². liquid glass (density: 1.38), 24 kg/m³ sodium flourosilicate, 500 kg/m³ finely crushed magnesite powder and 700 kg/m³ chamotte gravel (10 - 20 mm). The service life of these chutes was about 35 days. At present the chutes are reinforced by stainless steel, 2 mm in diameter. The furnace charging is continuous and fully automatic and takes place by means of bunkers, JIA-12 (LDA-12) type weight-proportioning devices, including an electromagnetic vibrator and weighing belts. The charging mechanism can be set for any required capacity by regulating the vibrator. Removal and cleaning of the exhaust gases is carried out by a two-stage process, involving a pipe-system and scrubbers. According to NIIOGAZ calculations, the amount of gas in the second stage of cleaning (at a furnace-capacity of 7,600 kw) is 1970 standard m³/hour and contains 18.05% CO, 60 - 72.7% CO and 0.0 - 2.29% O2. The dust content of the removed gas after the first cleaning stage is 5 - 10 gr/standard m³, which decreases to 0.1 - 0.0238 gr/standard m³.

Card 2/3

Putting into operation a large-capacity...

8/133/63/000/001/005/011 A054/A126

The undisturbed operation of the electrodes is ensured by making their fully welded coating of 2 mm thick iron. The diameter of the electrodes is 830 mm, their current density 7 a/cm². The change from the conventional to the new technology adapted for the converted furnaces must take place with great care. The charge must be fed in small batches around the electrodes, the level of the charge must be 600 - 700 mm for 8 hours, the furnace capacity must be kept low, but there should be a maximum load on the electrodes, i.e. they must penetrate deeply, almost as far as the bottom. For this purpose, after the furnace is put into operation, the amount of small coke in the first two charges must be 20 - 30% lower than prescribed. Improper furnace operation can be observed immediately from the drop in CO concentration and increase in the H₂ content of the gases, indicating water leakage from the cooling system, the critical H-content being 12%. If the pressure under the crown exceeds 8 - 10 mm water column, the reserve gas-system starts operating while the other one is being cleaned. There are 3 figures.

Card 3/3

- SAPKO, A.I., kand.tekhn.nauk; DOBROV, V.P., kand.tekhn.nauk; DEM'YANETS, L.A., inzh.; DEKHANOV, N.M., inzh.; VOLKOV, V.F., inzh.; KRAVCHENKO, V.A., inzh.; BOYTSOV, L.I., inzh.; SEMENOVICH, B.V., inzh.; FRISH, M.I., inzh.

Investigating power regulators with electromechanical and electrohydraulic drives on ferroalloy refining furnaces. Stal' 22 no.4:321-324 Ap '62. (MIRA 15:5) (Electric furnaces)

AL TSHULKR, B.A., kand.tekhn.nauk; BAKAL, M.Sh., inzh.; DEKBANOV, N.M.

Domical vanits made of fireproof reinforced concrete for ferroalloy furnaces. From stroi. 40 no.11:39-42 '62. (MIRA 15:12)

1. Mauchno-issledovatel'skiy institut betona i shekezobetona Akademii stroitel'stva i arkhitektury SSSR (for Al'tshuler).

2. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy po proizvodstvu stali (for Bakal). 3, Zaporoshskiy zavod ferrosplavov (for Dekhanov).

(Metallurgical furnaces) (Refractory concrete)

DEKHANOV, N.M., inzh.; VOLKOV, V.F., inzh.; KRAVCHENKO, V.A., kand.tekhn.nauk; FRISH, M.I., inzh.

A powerful, closed, ferroalley furnace has been put into operation.

Stal' 23 no.1:41-44 Ja '63. (MIRA 16:2)

(Electric furnaces—Design and construction)

(Iron alloys—Electrometallurgy)

SEREBRENNIKOV, A.A., inzh.; KRAVCHENKO, V.A., kand.tekhn.nauk; DEKHANOV, N.M., inzh.; BRUK, A.S., prof., doktor tekhn.nauk; LEYBOVICH, R. Ye., dotsent, kand.tekhn.nauk; BONCHAROV, V.F., inzh.

Making 75 percent ferrosilcon with molded coke. Stal* 23 no.1:44-46 Ja *163. (MIñA 16:2)

1. Zaporozhskiy zavod ferrosplavov i Dnepropetrovskiy metallurgicheskiy institut.

(Ferrosilocon-Electrometallurgy)

L 65105-65 EWP(*)/EWP(*)/EWP(*)/EWP(*)/EWP(b) 1JP(c) JD
ACCESSION NR: AP5021976 UR/0236/65/000/014/0038/0038
669,167,24

AUTHOR: Dekhanov, N. M.; Boytsov, L. I.; Zil'din, V. S.; Klassen, V. I.; Kurenkov, I. I.; Plaksin, I. N.; Runov, M. A.; Silayer, A. F.; Snezhko, P. F.

TITIE: A method for producing dispersed ferrosilicon powder. Class 18,

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1965, 38

TOPIC TAGS: powder metal production, silicon alloy, iron alloy

ABSTRACT: This Author's Certificate introduces a method for producing dispersed ferrosilicon powder with a particle size of no more than 100 microns by vaporizing the molten material using hot or cold air. The yield of fine particles is increased and spherical grains are produced by heating the melt in the 1550-1650°C range and passing it through a sillcified sleave with a valibrated opening which guarantees a constant flow of metal. The melt is then sprayed and the particles are separated according to size.

ASSOCIATION: none

SUBMITTED: 190ct63 NO REF SOV Cord 1/1724 ENCL: 00 OTHER 000 SUB CODE: MM

KHITRIK, S.I., doktor tekhn. nauk; DEKHANOV, N.M., inzh.; SARANKIN, V.A., inzh.; ZEL DIN, V.S., inzh.; BELIKOV, Yu.V., inzh.

Making manganese metal on a phosphorous-free slag from first-grade Nikopol' mangamese ore. Met. i gornorud. prom. no.5:66-68 S-0 '63. (MIRA 16:11)

RUDKOVSKIY, V.M., inzb.; DEKHANOV, N.M., inzt.; NIFOLAYFY, V.I., inzh.; POZDNYAKOV, I.A., inzh.

Producing pumice from the slag of ferroalloy plants. Stroi. mat. 11 no.4:25-27 Ap *65. (MIRA 18:6)

ZEL'DIN, V.S., inzh.; DEKHANOV, N.M., inzh.; BOYTSOV, L.I., inzh.; SARANKIN, V.A., inzh.

Experience in the industrial application of nonfluxed manganese sinter for the smelting of 82% silicomanganese. Stal! 25 no.8: 718 Ag '65. (MIRA 18:8)

SARANKIN, V.A., inzh.; DEKHANOV, N.M., inzh.; BOYTSOV, L.I., inzh.; ZEL'DIN, V.S., inzh.; CHUPAKHIN, Yu.M., inzh.

Effect of conditions of slag formation on the quality technical and economic indices of the production of carbon-free ferrochromium. Stal' 25 no.10:915-916 0 '65. (MIRA 18:11)

1. Zaporozhskiy zavod ferrosplavov.

DEKHANOV, N .M.; BOYTSOV, L.I., kand. tekhn. nauk; KRAVCHENKO, V.A., kand. tekhn. nauk; SNEZHKO, P.F.; ZEL'DIN, V.S.; KHARLAMOV, I.G. [deceased]; RUNOV, M.A.; SEREBRENNIKOV, A.A.; MATYUSHENKO, V.I.

Production of high-quality ferresilicon powder for heavy suspensions. Met. i gornorud. prcm. no.4:14-16 Jl-Ag '65. (MIRA 18:10)

	seria.	ACC NRI AP6019311 SOURCE CODE: UP (
		INVENTOR: Kazachkov, I. P.; Dekhanov, N. M.; Gavro, L. P.; Semen'kov, V. I.;	32
		ORG: none	
		TITLE: Alloy for alloying steel. Class 18, No. 174649	
	7.	bounce: Byulleten' izobreteniy i tovarnykh unaten	
		ferroalloy alloy steel, manganese containing alloy.	
		ABSTRACT: In order to shorten the alloying period and reduce loss of elements the following alloy and its constituents is proposed: 34-36 Cr, 23-31 Mn, 10-12 Si,	
		SUB CODE: 11 / SUBM DATE: none 23-31 Mn, 10-12 Si,	1
		Cord 1/1 0 C	
رة ا الح		UDC: 669.15'26'74'782	

ACC NR. AF6019312

SOURCE CODE: UR/0286/65/000/018/0032/0032

INVENTOR: Kazachkov, I. P.; Dekhanov, N. M.; Gavro, L. P.; Semen'kov, V. I.; 34

Kiselev, Tu. Yu.

ORG: nons

TITIE: Alloy for deoxidizing steel. Class 18, No. 174650

SOURCE: Byulleten' izobreteniy i tovarnyth znakov, no. 18, 1965, 32

TOPIC TAGS: alloy, metal purification, steel, manganese base alloy, ferroalloy

ABSTRACT: An alloy for deoxidizing steel is proposed to accelerate the process of melting the reducing agent and contains (in %): 65-72 Mn, 10-12 Si, 4-6 Al, 2.5-3.0

C, balance—iron. [JPRS]

SUB CODE: 11 / SUBM DATE: none

Cord 1/1 CC

UDC: 669.183.422: 669.046.558.6

ACC NR: AP7000366

SOURCE CODE: UR/0413/66/000/022/0143/0143

INVENTOR: Borodulin, G. M.; Dekhanov, N. M.; Kravchenko, V. A.; Plyshevskiy, A. I.

ORG: none

TITLE: Method of obtaining a bimetallic material. Class 48, 188318

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1965, 143

TOPIC TACS: metal cladding, diffusion clading

ABSTRACT: This Author Certificate introduces a method of manufacturing clad metal products such as sheets, tubes and bars by impregnating the surface of the base metal with a sublimated substance without direct contect between them. In order to improve the corrosion and oxidation resistance of the surface layer , the impregnation is carried out at 1400-1450C, after which the article is hot or [TD]

SUB CODE: 13/ SUBM DATE: 15Dec61/ ATD PRESS: 5109

Card

Using winches to move the OKU screw posts. Ugol' Ukr. 5 no.5:39
My '61. (Mine timbering)

1. 1 4 H CT

DEKHKAN-XHODZHAYEVA, N. A., Cand of Med Sci - (diss) "The significance of lambline in enteric discases." Tashkent, 1957, 16 pp (Tashkent State Medical Institute im V. M. Molotov) 250 copies (KL, 30-57, 112)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000309920018-9

9-1

DEKHKARE KALTO HOYEVA TOLA

USSR / Zooparasitology. Parasitic protozoa

Ahs Jour

: Referat Zh.Biol. No 2, 1958, 5339

Author

Rogova, L.I., Dekkhan-Khodzhaeva, N.A.

Inst

: Not given

Title

: Experimental infection of Rabbits by Amebiasis Through a Cecum Fistula by the Svanidze Method.

Orig Pub

: Med. parazitol. i parazitarn. bolezni, 1957, 26, Mo 1,

82-84

Abstract

: An operation of introducing a fistula by the method of D.P. Svanidze (Med. parasitol, and parasitic diseases, 1954, 2, 138) was conducted on 22 rabbits, 16 of which were used for infection with dysentery amebae through a fistula. Four strains of Entamoeba histolytica, isolated from healthy carriers, and 1 strain from a patient ill with an amebic liver

Card

Lat kichechnykh Prostlychekh Ind. Vaccios & Seriem

COUNTRY USSR : Zooparasitology. Parasitic Protozoa. Amebae CATEGORY : RZhBiol., No. 1, 1959, No. 14951 ABS. JOUR. : Rogova, L. I.; Dekhkan-Khodzhayeva, N. A. ROHTUA INST. : Cultivation of Entamoeba histolytica in Carrel TITLE Flasks and in Obliquely Set Test Tubes ORIG. PUB. : Labor. delo, 1958, No 1, 31-32 : In order to obtain a relatively greater surface ABSTRACT for the culture of amedae in a small quantity of modium. Carrel flashs with long necks (devised by the authors) were used with success. To ensure a uniform distribution of starch in the medium during cultivation of entamebae in test tubes with single-phase liquid modium, it is recommended to shake the tubes vigorously after resecding and to set them obliquely at an angle of 15-20°. -- S. G. Vasina CARD: 1/1.

DEKHKAN-KHODZHAYEVA, N. A. and ROGOVA, L. I.

"The Susceptibility to a Recurrent Lamblia Infection on the Part of Animals that have Recovered from It."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Institute of Vaccines and Sera, Tashkent

BEKHKAN-KHODZHAYEVA, N.A.

Ability of Lamblia to penetrate tissues. Med.paraz.i paraz.bol.
29 no.2:226-228 '60. (MIRA 13:12)
(GIARDIASIS)

ROGOVA, L.I.; DEKHKANKHODZHAYEVA, N.A.

Complement fixation reaction in amebiasis. Trudy TashNIIVS 6:227-231 '61. (MIRA 15:11)

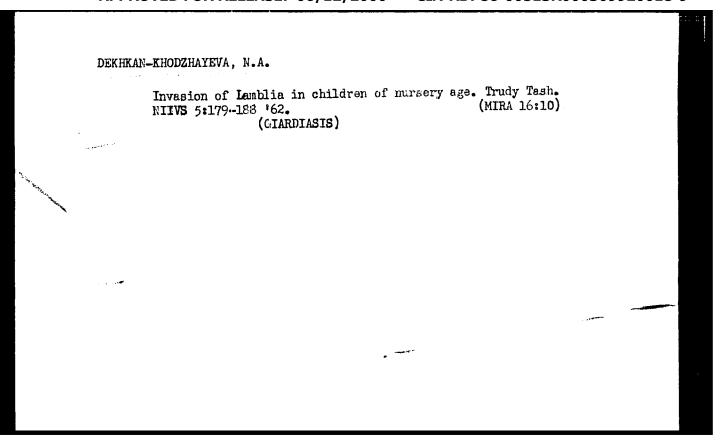
(AMEBIASIS) (COMPLEMENT FIXATION)

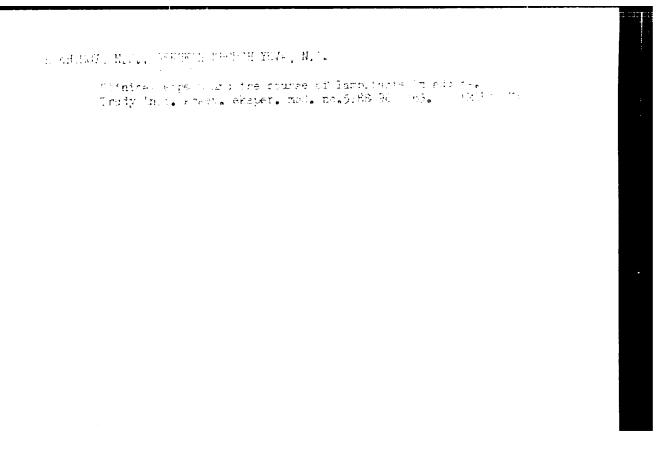
RAKHIMOV, N.R.; DEKHKANKHODZHAYEVA, N.A.; YUSUPOWA, E.

Use of natural gastric juice of cattle on patients with secretory insufficiency of the stomach. Trudy Inst. kraev. eksper, med. no.4:93-98'62. (MIRA 16:6) (GASTRIC JUICE) (DYSPEPSIA)

ROGOVA, L.I.; DEKHKAK-KHODZHAYEVA, N.A.

Problem of the identity of Lamblia in man and in rats. Trudy Tash. NIIVS 5:175-178'62. (MIRA 16:10) (GIARDIASIS)





5 KHK N-KHODIHIYEM, A.C.; NAZYROVA, V.Ye.

[brown then of fats from the intestinen in lemoltagin. Trudy
Inst. kraev. exspor. med. no.5:97: 51 167. (NHW. 17:6)

Enterokingle and phosphatase in the discound and intestinal contents in Labrinais patients. Triedy inst. knew. eksper. med. no.5%100-107 163. (MIEA 17:6)

DEBIJADI, R., sanitetski potpakovnik dr.; DEKLEVA, N., dr.; RALOVIC, A., sanitetski major dr.; DAVIDOVIC, T., dr.; DOKOVIC, V., veterinar-patolog

Contribution to the attempt of treatment of cerebral edema by simulated altitude. Vojnosanit. pregl. 22 no.10:621-624 0 *65.

1. Vazduhoplevnomedicinski institut.

S/630/60/000/002/002/006 D055/D114

AUTHOR: Grachev, Yu.N.; Dekhnich, M.Ya.; Litvinenko, I.V.; Nekrasova, K.A.; Sosnovskaya, A.V.

TITLE: Deep geophysical investigations on the territory of the Baltic Shield

SOURCE: International Geological Congress, 21st. Copenhagen, 1960. Doklady sovetskikh geologov, problema 2: Geologicheskiye rezul'taty prikladnoy geokhimii i geofiziki. Razdel II: Geofizika. Glubinnoye stroyeniye zemli po geofizicheskim dannym, 43-50

TEXT: This is an account of deep geophysical research carried out over part of the Baltic Shield in 1958, by the "Spetsgeofizika" Office and the Vsesoyuznyy nauchno-issledovetel skiy geologicheskiy institut (All-Union Scientific Research Institute of Geology.). The method of deep seismic probes evolved under the guidance of Academician G.A. Gamburtsev was used to cover a latitudinal 200-km profile across the northern part of Karelia. With comparatively small charges clear recordings of the basic groups of waves were obtained. The waves were considerably more varied and richer in dynamic characteristics than on the Russian Platform. The use of combined systems Card 1/2

S/630/60/000/002/002/006 D055/D114

Deep geophysical investigations ...

of contrary and parallel hodographs from four shot-points, facilitated the tracking of various groups of waves corresponding to the different boundaries of separation in the Earth's crust. Seismic probes facilitated a detailed study of the upper parts of the profile of pre-Cambrian crystalline strata. With the use of non-lengthwise profiles, not only was a section of the Earth's crust along the line Kem'-Ukhta obtained, but also an idea of the position of the Mohorovičik discontinuity. Nevertheless, the cost of the deep seismic investigations was no greater than that of ordinary seismic oilprospecting. The results obtained, facilitated the division of the crust according to its elastic properties, into several layers in the particular area of the Baltic Shield. The boundary at a depth of 10-15 km is most clearly marked, and this is related to the basalt surface. The boundary at 3.-38 km is related to the Mohorovičič discontinuity. The geological interpretation of all deep boundaries of division at the given stage of research is not yet sufficiently clear. Apart from their relevance to the Baltic Shield, these investigations admit a more critical evaluation of the results of similar work in regions covered by a sedimentary tor. There is reference to the work carried out by F. Berch on granite. There are 3 figures.

Card 2/2

s/169/62/000/001/002/083 D228/D302

Grachev, Yu. N., Dekhnich, M. Ya., Litvinenko, I. B., Nekrasova, K. A. and Sosnovskaya, A. V. AUTHORS:

Deep geophysical investigations in the territory of TITLE:

the Baltic Shield

Referativnyy zhurnal, Geofizika, no. 1, 1962, 7, abstract 1A50 (V sb. Geol. rezulitaty prikl. geokhimii i geofiz, Razdel 2, M., Gosgeoltekhizdat, 1960, 43-PERIODICAL:

TEXT: The results of deep geophysical sounding work in the USSR's northern part are stated. The aim of the work was the detailed study of the inner structure of the crust in the Ukhta-Kem' area. The work was executed along a profile with a length of ~200 km by the method of continuous set-ups: The seismographs were placed every 100 m from each other within the general instrumental set-up every to m from each owner wrong the general instrumental meta-and during its movement along the traverse. Explosions were made in three lakes which were situated at a distance of 50 - 80 km

card 1/2

S/169/62/000/001/002/083 D228/D302

Deep geophysical investigations ...

from each other. Six branches of refracted seismic waves which are compared with six discontinuity surfaces of the inner crustal layers, were recorded. The boundaries -- at a depth of 10 - 15 and 34 - 38 km -- are most clearly and positively distinguished. The second boundary is the Mohorovicic surface. In the overlying layer the speed of the refracted seismic waves is 6.6 km/sec; in the underlying layer it is 8.1 km/sec. In the layer directly overlying the first boundary this velocity differs in different parts of the traverse and fluctuates within the limits of 5.4 - 6.3 km/sec. Other discontinuity surfaces and intermediate layers, characterized by speed values of 6.9 - 7.0 and 6.7 km/sec, are less clearly exposed. The layer boundaries lie almost horizontally, forming a small subterranean relief in separate parts of the profile. Geologic irregularities in the crust's upper parts were also successfully outlined in a horizontal direction along the working traverse, and a number of abyssal faults confined to the contact zones of different structural-facies geologic formations were successfully defined. / Abstractor's note: Complete translation. /

Card 2/2

S/169/61/000/009/003/056 D228/D304

AUTHORS:

Litvinenko, I. V., Dekhnich, M. Ya., and Nekrasova, K. A.

TITLE:

Deep seismic sounding in the territory of the Baltic

shield

PERIODICAL:

Referativnyy zhurnal. Geofizika, no. 9, 1961, 5-6, abstract 9A36 (V sb. Seysmich. issled. no. 4, M.,

AN SSSR, 1960, 47-54)

TEXT: Deep seismic sounding was carried out in 1958 in the territory of Kareliya along the Kem'-Ukhta road. Certain side(forest) roads were used in addition to the main road. The small profile distortion was not reflected in the quality of the results of the work. The operative area is formed of ancient, highly metamorphozed rocks of a variable composition. The profile's eastern part is confined to the region where the oldest Archean fold structures (of the Belomorides) are developed, and the western part intersects the younger Kareliyan folding. Observations were made from four explosion points 50 - 80 km apart from each other; the

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Deep seismic sounding...

distance between the seismic detectors was equal to 100 m. Deep seismic sounding was conducted in conjunction with other georphysical observations (magnetometry, gravimetry). In addition, parametric soundings with a length of 200 - 300 m were undertaken at a number of exposures in order to study the uppermost part of the section of crystalline rocks in greater detail. The hodographs of six main wave-groups (I, II, III, IV, V, and M) were obtained through the preliminary processing of the results. The clearest boundaries of velocity variation at which reflected and leading waves arise are as follows: horizon III, $V_g = 6600 \text{ m/sec}$, depth 10 - 15km; horizon M (the Mohorovicic boundary), \tilde{V}_g = 8100 m/sec, depth 34 ~ 38 km. Boundary III is evidently connected with the surface of the "basalt" layer. Horizon II ($v_g = 6400 \text{ m/sec}$) is distinguished with less authenticity at a depth of about 5 km. This horizon is traced well only in the 100 - 140 km section of the Kem'-Ukhta profile-in the region where the zone of the East Kareliyan synclinal-structure is developed. Seismic boundaries IV and V, recorded in the "basalt" layer, still need to be made more precise; the velocity change at these boundaries is small. The Card 2/3

S/169/61/000/009/003/056 D228/D304

Deep seismic sounding ...

general rise of the Mohorovicic surface is outlined in a northeasterly direction to the side of the spacious region of Belomoride development. On the whole, the crust evidently has a smaller thickness in the area where the White Sea fold-structure is developed. Apart from the crust's horizontal layering, the data of the deep and parametric seismic-sounding permit the establishment of vertical zones of tectonic dislocations and contacts between rocks of a different composition. Abrupt variations in the recording intensity, the strong absorption of elastic vibrations, breaks in the correlation, etc. are noted in the zones of tectonic dislocation. The zone of abyssal fractures—approximately in the middle of the studied profile—is most authentically established. In the geologic respect this zone is characterized by the articulation of the Belomorides with the Karelides and by the devlopment of grandiorite intrusions with a clearly-oriented drainage system. Abstracter's note: Complete translation.

Card 3/3

S/169/62/000/007/005/149 D228/D307

AUTHORS:

Grachev, Yu.N., Dekhnich, M.Ya., Detenyshev, V.G., Litvinenko, I.V., Nekrasova, K.A. and Sosnovskaya,

TITLE:

Deep regional geophysical investigations on the

Baltic Shield's territory

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 7, 1962, 7, abstract 7A37. (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, N., Gostoptekhizdat, 1961, 45)

See RZhGeofiz, 1962, 1A50. ZAbstracter's note:

Complete translation_7

Card 1/1

- 1. DEKHNIK, T. V.
- 2. USSR (600)
- 4. Anchovies
- 7. Estimating the spawning school of Black Sea anchovies. Ryb. khoz. 29, no. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

DEKHNIK, T.V.; PAVLOVSKIY, Ye.N., akademik.

Reproduction of the Black Sea gray mullet. Dok1.AN SSSR 93 no.1:201-204 N 153. (Milk 6:10)

1. Akademiya nauk SSSR (for Pavlovskiy). (Black Sea--Gray mullet)

DEKHNIK, T.V.

Reproduction and development of the little mackerel (Pneumato-phorus japonicus (Houttuyn)) near the southern coast of Sakhalin. Issl.dal'nevost.mor.SSSR no.6:97-108 '59.

(MIRA 13:3)

1. Vacacyusnyy institut rybnogo khosysystva i okeanografii. (Sakhalin-Mackerel)

DEKHNIK, T.V.

Materials on the reproduction and development of some Far Eastern flatfishes. Issl.dal'nevost.mor.SSSN no.6:109-131 '59. (MIRA 13:3)

1. Vsesoyuznyy institut rybnogo khozyaystva i okeanografii. (Soviet Far East--Flatfishes)

DEK	HNIK, T.V. Diurnal periodicity of reproduction and phasic development in some (MIRA 14:10)	
	Diurnal periodicity of reproduction and phasic development in some (MIRA 14:10) marine fishes. Trudy SBS 12:285-296 59. (EMBRYOLOGY_FISHES)	

DEKHNIK, T.V.

Elimination indices in the embryonal and larval periods of the anchvoy in the Black Sea. Trudy SBS 13:216-244 '60.

(MIRA 14:3)

(Black Sea-Anchovies)(Marine ecology)

DEKHNIK, T.V.

Elimination indices of the embryonic and larval periods in the development of unchovies of the Black Sea. Trudy sov. Ikht. kom. no.13:314-329 '61. (MIRA 14:8)

1. Sevastopol[†]skaya biologicheskaya stantsiya AN SSSR. (Black Sea—Anchovies) (Fisheries—Research)

DEKHNIK, T.V.

Some patterns in the stock f uctuation and elimination of eggs and larvae of Engraulis enerasichelus ponticus Alex. in the Black Sea. Trudy SBS 16:340-358 163. (MIRA 17:6)

DEKHNIK, T.V.

Some comparative data on the reproduction of the anchovy Engraulis encrasicholus L. Vop.ikht. 3 no.1:144-151 '63.

(MIRA 16:2)

1. Sevastopol'skaya biologicheskaya stantsiya AN UkrSSR.

(Anchovies)

DEKHNIK, T.V.; SINYUKOVA, V.I.

Distribution of eggs and larvae of pelagic fishes in the Moditerranean Sea. Trudy SBS 17:77-115 '64.

(MIRA 18:6)

AUTHOR: Dekhovich, D. A. (Engineer)

ORG: none

TITIE: Flow calculation in the vaneless section of a radial turbine nozzle assembly

SOURCE: Energomashinostroyeniye, no. 8, 1966, 24-26

TOPIC TAGS: radial turbine, hand flow radial turbine, insure flow turbine nozzle assembly, turbine nozzle, flow calculation, NOZZLE FLOW

ABSTRACT: The basic equations determining the flow parameters in the vaneless section of an inward flow radial turbine nozzle assembly were studied. The dependence of the flow exist angle and the velocity coefficient on the basic parameters of the nozzle is shown. Furthermore, the calculations and experimental data show that the exit angle of the flow from the nozzle assembly of a radial turbine having a vaneless section at the exit increases with the increase in the ratio of reduced and critical flow velocities. This fact must be taken into account in designing inward flow turbines operating with significant heat gradients as well as in the calculation of their characteristics. Orig. art. has: 7 figures and 11 formulas.

SUB CODE: 21/ SUBM DATE: none/ ORIG REF: 004/

S/262/62/000/010/012/024 1007/1207

AUTHOR:

Dekhovich, D. A.

TITLE:

The utility of control of turbocompressors for the widening of their field of use

PERIODICAL:

Referativnyy zhurnal, otdel'nyy vypusk. 42, Silovyye ustanovki, no. 10, 1962, 65-66, abstract 42.10.359. In collection "Gazoturbin, nadduv dvigateley vnutr. sgoraniya". Mos-

cow, Mashgiz, 1961, 49-55

TEXT: Description is given of a diesel engine with self-contained turbocompressor, and control methods are studied, intended to ensure matching of turbocompressor characteristics with diesel-engine performance. There are 3 references.

[Abstracter's note: Complete translation.]

Card 1/1

DEKHOVICH, D.A., inzh.

Characteristics of a turbine stage. Izv. vys. ucheb. zav.; energ. 8 no.8:67-75 Ag *65. (MIRA 18:9)

l. Leningradskiy politekhnicheskiy institut imeni M.I. Kalinina. Predstavlena kafedroy turbinostroyeniya.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000309920018-9

L 8082-66 ACC NR: SOURCE CODE: AP5025569 AUTHOR: Dekhovich, D. A. (Engineer) ORG: Leningrad Polytechnic Institute imeni. M. I. Kalinin (Leningradskiy politekhnicheskiy institut) TITLE: Characteristics of a turbine stage SOURCE: IVUZ. Emergetika, no. 8, 1965, 67-75 TOPIC TAGS: turbine, turbine characteristic, turbine stage, turbine efficiency, turbine design, Reynolds number ABSTRACT: If the hydrodynamic processes in a turbine stage can be modelled by the Reynolds number, then the universal characteristics of the turbine can be calculated in terms of two dimensionless parameters, the efficiency η , dimensionless flow rate dimensionless power and torque can all be plotted in terms of $\sigma = p_0^*/p_2$ and = u_1/c_0 (normal nomenclature), according to I. I. Kirillov (Gazovyye turbiny i gazoturbinnyye ustanovki, t. I i II, Mashgiz, 1956). The equations relating the degree of reactivity ρ and flow coefficient 621.165 UDC: Card 1/4